

UTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(h))

Attorney Docket No. 06192.0178.NPUS00

First Named Inventor or Application Identifier

Sahng-Ik JUN

Title

Thin Film Transistor Array Substrate For A Liquid Crystal  
Display And Method For Fabricating The Same

Express Mail Label No.

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☒ \*Fee Transmittal Form (Form PTO-1082)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 28 ]  
(preferred arrangement set forth below)  
- Descriptive title of the Invention  
- Cross References to Related Applications  
- Statement Regarding Fed sponsored R&D  
- Reference to Microfiche Appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claims  
- Abstract of the Disclosure
3. ☒ Drawing(s) (35 USC 113) [Total Sheets 24 ]
4. ☐ Oath or Declaration [Total Pages 3 ]  
a. ☒ Newly executed (original or copy)  
b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 17 completed)  
[Note Box 5 below]  
i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named  
in the prior application, see 37 CFR 1.63(d)(2) and  
1.33(b).
5. ☐ Incorporation By Reference (useable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy  
of the oath or declaration is supplied under Box 4b, is considered  
as being part of the disclosure of the accompanying application  
and is hereby incorporated by reference therein.

6. ☐ Microfiche Computer Program (Appendix)
7. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)  
a. ☐ Computer Readable Copy  
b. ☐ Paper Copy (identical to computer copy)  
c. ☐ Statement verifying identity of above  
copies

## ACCOMPANYING APPLICATION PARTS

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement ☐ Power of  
(when there is an assignee) Attorney
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure ☐ Copies of IDS  
Statement (IDS)/PTO-1449 Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503) (Two)  
(should be specifically itemized)
14. ☐ \*Small Entity ☐ Statement filed in  
Statement(s) prior application,  
Status still proper  
and desired
15. ☒ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Other:

\*NOTE FOR ITEMS 1 & 14: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY  
FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF  
ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

## 17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No. /

Prior Application Information: Examiner: Group/Art Unit:

## 18. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label 22930 or ☐ Correspondence address below  
(Insert Customer No. or Attach bar code label here)

NAME	Michael J. Bell				
	HOWREY SIMON ARNOLD & WHITE, LLP				
ADDRESS	Box No. 34				
	1299 Pennsylvania Avenue, N.W.				
CITY	Washington	STATE	DC	ZIP CODE	20004-2402
COUNTRY	US	TELEPHONE	202-783-0800	FAX	202-383-7195
Name (Print/Type)	Michael J. Bell			Registration No. (Attorney/Agent)	39,604
Signature	David J. Paulsen (44,483) FOR			Date	May 11, 2001

## HOWREY SIMON ARNOLD &amp; WHITE, LLP

Box No. 34

1299 Pennsylvania Avenue, NW

Washington, DC 20004-2402

(202) 783-0800

Attorney Docket No. 06192.0178.NPUS00ASSISTANT COMMISSIONER FOR PATENTS  
Washington, DC 20231

Sir:

Transmitted herewith for filing is the patent application of

Inventor: Sahng-Ik JUN

For: THIN FILM TRANSISTOR ARRAY SUBSTRATE FOR A LIQUID CRYSTAL  
CRYSTAL DISPLAY AND METHOD FOR FABRICATING THE SAME

Enclosed is a new application comprising:

- ☒ A specification containing: 20 pages of description prior to the claims; 7 pages of claims (34 claims); a one (1) page abstract; 24 sheets of drawings (Figures 1, 2, 3A, 3B, 4A, 4B, 5A, 5B, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18A, 18B, 19A and 19B)
- ☒ PTO SB/05

The filing fee has been calculated as shown below:

	(Col. 1)	(Col. 2)
FOR	NO. FILED	NO. EXTRA
BASIC FEE		
TOTAL CLAIMS	34-20 =	* 14
INDEP. CLAIMS	3-3 =	* 0
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENTED		

\*If the difference in Col. 1 is less than zero, enter "0" in Col. 2

SMALL ENTITY	
RATE	
	\$ 345.00
x 9 =	
x 39 =	
+ 130 =	
TOTAL	

OTHER THAN A SMALL ENTITY	
RATE	FEE
	\$ 710.00
x 18 =	252.00
x 80 =	
+ 270 =	
TOTAL	\$ 962.00

- ☒ A check in the amount of \$962.00 to cover the filing fee and extra claims fee is enclosed.
- ☒ The U.S. Patent and Trademark Office is hereby authorized to charge payment of the following fees during the pendency of this application or credit any overpayment to Deposit Account No. 08-3038 referencing docket number 06192.0178.NPUS00. *A copy of this sheet is enclosed.*
- ☒ Any patent application processing fees under 37 CFR 1.17
- ☒ Any filing fees under 37 CFR 1.16 for presentation of extra claims.

Date May 11, 2001

Deborah J. Bell (44,483)  
For Michael J. Bell  
Registration No. 39,604

May 11, 2001

**Box New Applications**

Assistant Commissioner for Patents  
Washington, DC 20231

Re: New Utility Non-Provisional U.S. Patent Application  
Application No. **TO BE ACCORDED** Filed **HEREWITH**  
Title: **THIN FILM TRANSISTOR ARRAY SUBSTRATE FOR A**  
**LIQUID CRYSTAL DISPLAY AND METHOD FOR FABRICATING THE SAME**  
Inventor: **Sahng-Ik JUN**  
Our Ref: **06192.0178.NPUS00**

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. Form PTO SB/05;
2. Form PTO 1082;
3. U.S. Utility Patent Application entitled:

**THIN FILM TRANSISTOR ARRAY SUBSTRATE FOR A LIQUID  
CRYSTAL DISPLAY AND METHOD FOR FABRICATING THE SAME**

and naming as inventors: **Sahng-Ik JUN**

the application consisting of:

a. A specification containing:

- (i) 20 pages of description prior to the claims;
- (ii) 7 pages of claims (**34** claims);
- (iii) a **one** (1) page abstract;

b. 24 sheets of drawings: (**Figures 1, 2, 3A, 3B, 4A, 4B, 5A, 5B, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18A, 18B, 19A and 19B**)

4. Executed Declaration-Power of Attorney;
5. PTO 1595, Executed Assignment and Check No. 352760 in the amount of \$40.00 to cover recordation fee;
6. Claim to Priority and certified copy of Korean Patent Application No. 2000-25466 dated May 12, 2000;
7. Check No. 352759 in the amount of \$962.00 to cover the basic application filing and extra claims fees;
8. Two (2) return postcards

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, and/or credit our Deposit Account No. 08-3038 referencing docket number 06192.0178.NPUS00. *A duplicate of this letter is enclosed.*

Respectfully submitted,

*Derek J. Jandura (44,483)*

FOR Michael J. Bell  
Registration No. 39,604

Enclosures